

Title (en)

METHOD FOR LAPPING CONICAL SURFACES, AND LAPPING DEVICE FOR CARRYING OUT THIS METHOD

Publication

EP 0143049 A3 19861203 (FR)

Application

EP 84402306 A 19841113

Priority

FR 8318401 A 19831118

Abstract (en)

[origin: EP0143049A2] 1. A method of lapping conical surfaces wherein friction is produced between a plane abrasive surface (3) and the conical surface (S1) of at least one member (P1) having a principal axis of symmetry (AS1) in accordance with which it fixed to a support (2) for members, the abrasive surface (3) being moved in a mean given direction (A and A1) in relation to the member (P1) and, in contact with the conical surface (S1) admitting as the axis of revolution the principal axis of symmetry (AS1) of the member (P1), characterized in that, the member being mounted free in rotation around its principal axis (AS1) of symmetry, the method consists in displacing the member (P1) circularly around a first axis (5) which is substantially perpendicular to the plane of the abrasive surface (3) and which coincides with the axis of symmetry of the support (2) in such a manner as to continuously modify an angle of friction (α 5) formed between the generatrix (G1) in contact with the abrasive surface (3) and the mean direction (A and A1) of the latter, and permitting, under the effect of the friction with the surface (3), the rotation of the member (P1) around its principal axis (AS1) of symmetry at variable speeds and in alternating directions, as a function of the positions of the member (P1) in relation to the first axis (5).

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CPC (source: EP)

B24B 1/00 (2013.01); **B24B 5/14** (2013.01); **B24B 5/36** (2013.01); **B24B 37/02** (2013.01)

Citation (search report)

- [A] FR 1077081 A 19541104
- [A] US 3641991 A 19720215 - HABER ARNO
- [A] FR 2350924 A1 19771209 - SHC [FR]
- [A] GB 596127 A 19471229 - EDWIN MASSEY WINGFIELD
- [A] US 2026429 A 19351231 - NORTH GEORGE H
- [A] US 4319967 A 19820316 - VRATNY FREDERICK, et al

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